

TD 3641  
PATENT

Attorney Docket No. 00820-03

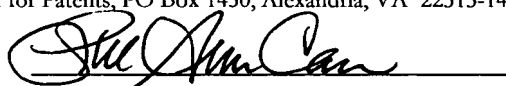
## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*Applicant:* Matthew M. Terry, et al. } *Customer No.* 34444  
} *Serial No.* 10/526,416 } *Art Unit:* 3641  
} *Filing Date:* March 2, 2005 } *Examiner:* Stephen Johnson  
*Title:* Blast and Ballistic Protection Systems and Methods of Making Same

Certificate of Mailing Under 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service using First Class Service under 37 C.F.R. §1.8 on the date indicated below and is addressed to Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Date: June 25, 2007

  
Sue Ann Carr

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.97(c)(2)**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.97(c)(2), submitted herewith please find an Information Disclosure Statement for the above identified application, consisting of Form PTO/SB/08A referencing 125 U.S. patents and one (1) foreign patent, Form PTO/SB/08B with copies of 21 references. The Information Disclosure Statement is being filed after period specified in 37 CFR §1.97(b) and accompanied by a fee pursuant to 37 CFR §1.17(p).

Applicants respectfully submit that the filing of this Information Disclosure Statement is not a representation that a prior art search was conducted or that the information cited is material to the patentability of the invention as defined in 37 CFR §1.56, or that any cited document is prior art. Applicants request that the Examiner consider the references, determine their relevance to the present application, if any, and list the references on the face of any patent which may issue from the present application. Applicants further request that an initialed copy of Forms PTO/SB/08A and PTO/SB/08B be returned to applicants.

06/26/2007 CNEGAI 00000043 500423 10526416

01 FC:1806

180.00 DA

The Commissioner is hereby authorized to charge the fee due for this submission to Deposit Account No. 50-0423, as well as credit any refunds. A fee transmittal is submitted herewith in duplicate.

Respectfully submitted,

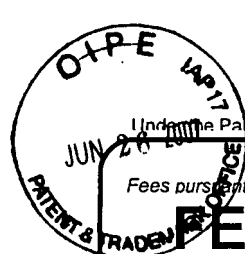
June 25, 2007

A handwritten signature in black ink, appearing to read 'R. J. Decker', is written over a horizontal line.

Robert J. Decker

Registration No. 44,056

University of Virginia Patent Foundation  
250 West Main Street, Suite 300  
Charlottesville, VA 22902  
Telephone: (434) 924-2640  
Fax: (434) 924-2493



Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FREE TRANSMITTAL**  
**For FY 2005**☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

**Complete if Known**

Application Number	10/526,416
Filing Date	March 2, 2005
First Named Inventor	Matthew M. Terry
Examiner Name	Stephen Johnson
Art Unit	3641
Attorney Docket No.	00820-03

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_☒ Deposit Account Deposit Account Number: 50-0423 Deposit Account Name: University of Virginia Patent Foundation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
- 20 or HP =	x	=				
HP = highest number of total claims paid for, if greater than 20						
<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>			
- 3 or HP =	x	=				
HP = highest number of independent claims paid for, if greater than 3						

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
- 100 =	/ 50 =	(round up to a whole number) x	125.00	0.00

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other: IDS fee pursuant to 37 CFR 1.17(p) (1806)

Fees Paid (\$)

180.00

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	44,056	Telephone	434-924-2175
Name (Print/Type)	Robert J. Decker	Date	June 25, 2007		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 7

**Complete if Known**

Application Number	10/526,416
Filing Date	38413
First Named Inventor	Matthew M. Terry
Art Unit	3641
Examiner Name	Stephen Johnson
Attorney Docket No.	00820-03

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
	1	US -	7211348	5/1/2007	Wadley	Entire document
	2	US -	6740381	5/25/2004	Day	Entire document
	3	US -	6739104	5/25/2004	Tokonabe	Entire document
	4	US -	6684943	2/3/2004	Dobbs	Entire document
	5	US -	6676797	1/13/2004	Tippett	Entire document
	6	US -	6644535	11/11/2003	Wallach	Entire document
	7	US -	6579811	6/17/2003	Narwankar	Entire document
	8	US -	6284346	9/4/2001	Sheridan	Entire document
	9	US -	6228744	5/8/2001	Levine	Entire document
	10	US -	6207256	3/27/2001	Tashiro	Entire document
	11	US -	6204200	3/20/2001	Shieh	Entire document
	12	US -	6200664	3/13/2001	Figge	Entire document
	13	US -	6189286	2/20/2001	Seible	Entire document
	14	US -	6176964	1/23/2001	Parente	Entire document
	15	US -	6175495	1/16/2001	Batchelder	Entire document
	16	US -	6170560	1/9/2001	Daily	Entire document
	17	US -	6082443	7/4/2000	Yamamoto	Entire document
	18	US -	6080495	6/27/2000	Wright	Entire document

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup>				
Examiner Signature					Date Considered		

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<sup>6</sup>Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. The collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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		Application Number	10/526,416
		Filing Date	38413
		First Named Inventor	Matthew M. Terry
		Art Unit	3641
Examiner Name		Stephen Johnson	
Sheet 2 of 7		Attorney Docket No. 00820-03	

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)		MM-DD-YYYY	Applicant of Cited Document	
	19	US -	6077370	6/20/2000	Solvstev	Entire document
	20	US -	6076324	6/20/2000	Daily	Entire document
	21	US -	6003591	12/21/1999	Campbell	Entire document
	22	US -	5972468	10/26/1999	Welch	Entire document
	23	US -	5972146	10/26/1999	Fantino	Entire document
	24	US -	5970843	10/26/1999	Strasser	Entire document
	25	US -	5962150	10/5/1999	Priluck	Entire document
	26	US -	5943543	8/24/1999	Uchida	Entire document
	27	US -	5924459	7/20/1999	Evans	Entire document
	28	US -	5890268	4/6/1999	Mullen	Entire document
	29	US -	5888912	3/30/1999	Piemonte	Entire document
	30	US -	5888609	3/30/1999	Karttunen	Entire document
	31	US -	5817391	10/6/1998	Rock	Entire document
	32	US -	5808866	9/15/1998	Porter	Entire document
	33	US -	5773121	6/30/1998	Meteer	Entire document
	34	US -	5772821	6/30/1998	Yasui	Entire document
	35	US -	5771488	6/30/1998	Honkala	Entire document
	36	US -	5741574	4/21/1998	Boyce	Entire document

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Examiner Signature					Date Considered		

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		First Named Inventor	Matthew M. Terry
		Art Unit	3641
Examiner Name		Stephen Johnson	
Sheet 3 of 7		Attorney Docket No. 00820-03	

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		Number-Kind Code <sup>2</sup> (if known)				
	37	US -	5698282	12/16/1997	DeMeyer	Entire document
	38	US -	5679467	10/21/1997	Priluck	Entire document
	39	US -	5677029	10/14/1997	Prevorsek	Entire document
	40	US -	5673571	10/7/1997	Moss	Entire document
	41	US -	5656984	8/12/1997	Paradis	Entire document
	42	US -	5654518	8/5/1997	Dobbs	Entire document
	43	US -	5642776	7/1/1997	Meyer	Entire document
	44	US -	5624622	4/29/1997	Boyce	Entire document
	45	US -	5605628	2/25/1997	Davidson	Entire document
	46	US -	5598632	2/4/1997	Camarda	Entire document
	47	US -	5591162	1/7/1997	Fletcher	Entire document
	48	US -	5547737	8/20/1996	Evans	Entire document
	49	US -	5534314	7/9/1996	Wadley	Entire document
	50	US -	5527590	6/18/1996	Priluck	Entire document
	51	US -	5527588	6/18/1996	Camarda	Entire document
	52	US -	5511974	4/30/1996	Gordon	Entire document
	53	US -	5503887	4/2/1996	Diaz	Entire document
	54	US -	5472769	12/5/1995	Goerz	Entire document

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Sheet 4 of 7		Attorney Docket No. 00820-03	

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	55	US -	5471905	12/5/1995	Martin	Entire document
	56	US -	5465760	11/14/1995	Mohamed	Entire document
	57	US -	5455096	10/3/1995	Toni	Entire document
	58	US -	5431800	7/11/1995	Kirchhoff	Entire document
	59	US -	5424139	6/13/1995	Shuler	Entire document
	60	US -	5417686	5/23/1995	Peterson	Entire document
	61	US -	5401583	3/28/1995	Stacher	Entire document
	62	US -	5360500	11/1/1994	Evans	Entire document
	63	US -	5349893	9/27/1994	Dunn	Entire document
	64	US -	5312660	5/17/1994	Morris	Entire document
	65	US -	5309457	5/3/1994	Minch	Entire document
	66	US -	5308669	5/3/1994	Prucher	Entire document
	67	US -	5282861	2/1/1994	Kaplan	Entire document
	68	US -	5266279	11/30/1993	Haerle	Entire document
	69	US -	5224519	7/6/1993	Farley	Entire document
	70	US -	5219020	6/15/1993	Akachi	Entire document
	71	US -	5217770	6/8/1993	Morris	Entire document
	72	US -	5190539	3/2/1993	Fletcher	Entire document

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		Number-Kind Code <sup>2</sup> (if known)				
	73	US -	5181549	1/26/1993	Shapovalov	Entire document
	74	US -	5179043	1/12/1993	Weichold	Entire document
	75	US -	5176641	1/5/1993	Idriss	Entire document
	76	US -	5137058	8/11/1992	Anahara	Entire document
	77	US -	5110661	5/1/1992	Groves	Entire document
	78	US -	5102723	4/7/1992	Pepin	Entire document
	79	US -	5070673	12/10/1991	Weisse	Entire document
	80	US -	5040966	8/20/1991	Weisse	Entire document
	81	US -	5011638	4/30/1991	Pinkhasov	Entire document
	82	US -	5002378	3/26/1991	Colarusso	Entire document
	83	US -	4968367	11/6/1990	Diderich	Entire document
	84	US -	4955135	11/9/1990	Pinkhasov	Entire document
	85	US -	4923544	5/8/1990	Weisse	Entire document
	86	US -	4918281	4/17/1990	Blair	Entire document
	87	US -	4916027	4/10/1990	Delmundo	Entire document
	88	US -	4883116	11/28/1989	Seidenberg	Entire document
	89	US -	4859541	8/22/1989	Maxeiner	Entire document
	90	US -	4819719	4/11/1989	Grote	Entire document

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		Country Code <sup>3</sup>	Number <sup>4</sup> -Kind Code <sup>5</sup>				
Examiner Signature					Date Considered		

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		Application Number	10/526,416
		Filing Date	38413
		First Named Inventor	Matthew M. Terry
		Art Unit	3641
Examiner Name		Stephen Johnson	
Sheet 6 of 7		Attorney Docket No. 00820-03	

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)		MM-DD-YYYY	Applicant of Cited Document	
	91	US -	4765396	8/23/1988	Seidenberg	Entire document
	92	US -	4758299	7/19/1988	Burke	Entire document
	93	US -	4756943	7/12/1988	Koletzko	Entire document
	94	US -	4687702	8/18/1987	Monsees	Entire document
	95	US -	4639388	1/27/1987	Ainsworth	Entire document
	96	US -	4632716	12/30/1986	Smith	Entire document
	97	US -	4625710	12/2/1986	Harada	Entire document
	98	US -	4531511	7/30/1985	Hochberg	Entire document
	99	US -	4530197	7/23/1985	Rainville	Entire document
	100	US -	4529640	7/1/1985	Brown	Entire document
	101	US -	4522860	6/11/1985	Scott	Entire document
	102	US -	4469077	9/4/1984	Wooldridge	Entire document
	103	US -	4453367	6/12/1984	Geyer	Entire document
	104	US -	4450338	5/22/1984	Conn	Entire document
	105	US -	4291732	9/19/1981	Artzer	Entire document
	106	US -	4223053	9/16/1980	Brogan	Entire document
	107	US -	4194255	3/25/1980	Poppe	Entire document
	108	US -	4130233	12/19/1978	Chisholm	Entire document

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup>				
Examiner Signature					Date Considered		

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		Number-Kind Code <sup>2</sup> (if known)		MM-DD-YYYY	Applicant of Cited Document	
	109	US -	4067956	1/10/1978	Franklin	Entire document
	110	US -	4038440	7/26/1976	King	Entire document
	111	US -	4037751	7/26/1977	Miller	Entire document
	112	US -	4027476	6/7/1997	Schmidt	Entire document
	113	US -	4019540	4/26/1977	Holman	Entire document
	114	US -	4001478	1/4/1977	King	Entire document
	115	US -	3996082	12/7/1976	Leatherman	Entire document
	116	US -	3971072	7/27/1976	Armellino	Entire document
	117	US -	3869778	3/11/1975	Yancey	Entire document
	118	US -	3857217	12/31/1974	Reps	Entire document
	119	US -	3795288	3/5/1974	Pall	Entire document
	120	US -	3783969	1/8/1974	Pall	Entire document
	121	US -	3298402	1/17/1967	Hale	Entire document
	122	US -	2789076	4/16/1957	Frieder	Entire document
	123	US -	2481046	9/6/1949	Scurlock	Entire document
	124	US -	2288104	6/30/1942	Pasquier	Entire document
	125	US -	1154254	9/21/1915	Lachman	Entire document
		US -				Entire document

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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup>				
	126	JP	1147294	6/8/1989	Yasunobu	Entire document	
Examiner Signature					Date Considered		

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Substitute for form 1449B/PTO		JUN 26 2007		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number		10/526,416	
		Filing Date		March 2, 2005	
		First Named Inventor		Matthew M. Terry	
		Art Unit		3641	
		Examiner Name		Stephen Johnson	
Sheet	1	of	3	Attorney Docket Number	00820-03

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A	WADLEY, "Manufacture of Cellular Metals: An Overview of Concepts for Stochastic and Periodic Materials," MetFoam 2001, (June 18, 2001).	
	B	UNKNOWN, "DUOCEL Foam Metal for Semiconductor Applications," ERG Materials and Aerospace Corporation website,	
	C	UNKNOWN, ERG Materials and Aerospace Corporation website	
	D	UNKNOWN, "Reticulated Vitreous Carbon," ERG Materials and Aerospace Corporation website	
	E	UNKNOWN, "Properties of DUOCEL Silicon Carbide Foams," ERG Materials and Aerospace Corporation website	
	F	BOOMSMA, "Metal Foams for Compact High Performance Heat Exchangers," Laboratory of Thermodynamics in Emerging Technologies, website 2001	
	G	GIBSON, "Metallic Foams: Structure, Properties and Applications," ICTAM 2000, (August 28, 2000).	
	H	UNKNOWN, "Directed Vapor Deposition of Ultralightweight Metal Foams," UVA website	
	I	UNKNOWN, "Micro Heat Exchangers," Institut for Mikrotechnik Mainz GmbH, (February 1, 1998).	
	J	NAANES, "Grant funds University heat-exchanger project," The Reveille, Louisiana State University, (November 9, 1999).	

Examiner Signature		Date Considered	
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				Art Unit	3641
				Examiner Name	Stephen Johnson
Sheet	2	of	3	Attorney Docket Number	00820-03

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	K	UNKNOWN, "Solid Sorption Machines with Heat Pipe Heat Exchangers for Heat Transfer Enhancement and Thermal Control," U.S. Civilian Research & Development Foundation website, Abstract #BE1-107	
	L	ITOH, "Itoh's Micro Heat Pipe Home Page," Itoh's website,	
	M	UNKNOWN, "A High Performance Heat Sink Using Micro Heat-Pipes Now Available at Low Price," Furukawa Electric website, (January 25, 2000).	
	N	UNKNOWN, "The Application of Micro-Heat-Pipe in a Portable Electronic System," Industrial Technology Research Institute, Vol. 7 (Winter), (1996).	
	O	UNKNOWN, "Thermal Management - Heat Pipes," Fujikura Europe Limited website, United Kingdom.	
	P	UNKNOWN, "Thermal Management - Heat Sinks," Fujikura Europe Limited website, United Kingdom.	
	Q	QUEHEILLALT, ET AL., "Electron beam - directed vapor deposition of multifunctional structures," Mat. Res. Soc. Symp. Proc., Vol. 672, (November 12, 2001).	
	R	SEOK HWAN MOON, ET AL., "Experimental study on the thermal performance of micro-heat pipe with cross-section of polygon," Microelectronics Reliability 44 (2004) 315-321, (February 12, 2003).	
	S	SYPECK, "Multifunctional microtruss laminates: Textile synthesis and properties," Mat. Res. Soc. Symp. Proc. Vol. 672 2001 Materials Research Society	
	T	EVANS, "Lightweight materials and structures," MRS Bulletin Oct 2001	

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				First Named Inventor	Matthew M. Terry
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				Examiner Name	Stephen Johnson
				Attorney Docket Number	00820-03
Sheet	3	of	3		

[illegible]

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